

**P2 COMMITTEE ACTIVITIES AND TARGETS – FY – 2006**

	<b>ACTIVITIES (PROJECT LEADER)</b>	<b>TARGET</b>	<b>UPDATE</b>
1.	Adopt-A-Building - lawn care (Sekura / Hodgson)	Volunteer building residents performing most of the necessary maintenance besides mowing at 3 buildings	Develop promotional program for weed-pulling, chemical spraying reduction. Discuss with Phil Kall and health & safety personnel first.
2.	Natural lawn care (Sekura)	Implement a more Earth-friendly lawn care program	L. Sekura to speak with Phil Kall and refer him to CSU's landscaping manager.
3.	No mow zones (Sekura)	Reduce fossil fuel burning, resources, and chemicals used in lawn maintenance	P. Kall and R. Palyo discussing 3 of 5 suggested areas.
4.	Energy conservation program (Sekura)	Long-term: reduce demand from 23 to 17 MW per month. Short-term: Implement conservation programs for ODIN and general GRC	The Energy Team to contact ODIN for advice on computer energy conservation. Energy conservation notices have been posted on Today @ Glenn.
5.	Alternative power at Lewis Field (Miller / Sekura / Wroblewski)	Produce 1% power renewably at Lewis Field, or reduce power 1% by feeding into the grid. (Produce renewable energy to feed back into grid, remove an area from grid, or use power for a project instead of grid.)	Contract with First Energy now includes the approval to produce power renewably.
6.	Alternative power at Plum Brook (Lallier / Miller / Sekura / Wroblewski)	Produce 1% power renewably at Plum Brook (Long-term = 2.5% +). (Produce renewable energy to feed back into grid, remove an area from grid, or use power for a project instead of grid.)	F. Miller, L. Sekura, H. Wroblewski met with M. Puzak. Miller to call Sprint to get permission to put wind monitor on the tower. F. Miller to contact First Energy after wind power results obtained
7.	First Energy / Community collaborations for alternative power (Miller / Sekura / Wroblewski)	Begin one collaborative project	L. Sekura and F. Miller to meet with GRC and First Energy contract people to discuss.
8.	Assist in providing wind power from Lake Erie (F. Miller)	Assist in GEO project by receiving data at NASA antenna – Target achieved when wind monitoring study completed.	Lake Erie crib monitor set up.
9.	Hydrogen power production at GRC (Sekura / Hoberecht / Prokopius)	Hydrogen is produced at GRC in preparation for a fueling station or for use in a project.	\$20K in funding received during Oct. The electrolyzer has arrived. Testing completed. Report received 2/22/06.
10.	Portable hydrogen unit (Sekura / Prokopius / Hoberecht)	Complete a prototype for general or military use.	The proposal submitted to CSU didn't receive the grant for \$163K of funding. Kevin Palmer (DOD) is also looking for funding sources through the military. GRC is looking for other sources of funding, including the U. S.EPA.

**P2 COMMITTEE ACTIVITIES AND TARGETS – FY – 2006**

	<b>ACTIVITIES (PROJECT LEADER)</b>	<b>TARGET</b>	<b>UPDATE</b>
11.	Water conservation for cooling tower maintenance (Sekura / White)	Use rental portable unit, install permanent unit, or other method, to save water during shutdown	L. Sekura to follow up on cooling tower maintenance. Energy Team is now the Energy/Water Conservation Team.
12.	Water conservation project (Sekura)	Implement one substantial water conservation project.	W. Howser, R. Palyo, and others reviewing other GRC once-through water systems.
13.	Water conservation awareness program (Sekura)	Implement water conservation awareness program.	Meet with others to review water saving opportunities. Begin water conservation awareness program plan.
14.	Add 5 products to EPP site (Sekura) (CARRYOVER FROM FY05)	5 EPP products posted on the EPP site	Toilet paper, deodorant, and toilet bowl cleaner write-ups have been posted in the Environmentally Preferable Products section of the P2 website. Laundry soap evaluation is in progress.
15.	Create a home products listing on the EPP site - add 5 products (Sekura)	5 EPP products posted on the EPP site.	
16.	Create an AP/CPG assistance listing on the EPP site (Center-focused) - add 5 products (Sekura)	5 EPP products posted on the EPP site.	
17.	Plastic bag program (Sekura)	Reduce bags and/or replace with biodegradable. Implement program.	L. Sekura to place announcement in Today @ Glenn about program.
18.	Diapers vs. disposables LCA (Sekura)	Create LCA and post on P2 site.	In progress.
19.	Biodegradable cafeteria supplies (Sekura)	Implement pilot program	Attempt one starch-to-go container. Cafeteria management is open to permitting a project.
20.	New cafeteria set-up (Sekura)	Integrate sustainability concepts	The SOW that went out for bid included pro-P2 language. Advisory committee for P2/Nutrition suggested to mgmt. New cafeteria is not using washables.
21.	Laser paint removal in Hangar (Sekura)	Make case for laser equipment at GRC or help NASA contractor purchase or lease.	Indoor (various items) and outdoor tests (High Altitude Research Tunnel) completed the week of October 28. Awaiting results.
22.	Soil pile prairie – West & Cryogenic (Walker/Buttler/Sekura)	Plant native prairie	Buttler (Pheasants Forever) seed at GRC. Roto tilling complete. Soil will be needed for 2 projects. May plant half after first project.

**P2 COMMITTEE ACTIVITIES AND TARGETS – FY – 2006**

	<b>ACTIVITIES (PROJECT LEADER)</b>	<b>TARGET</b>	<b>UPDATE</b>
23.	Garnet recycling tech transfer (Kocher)	Investigate business-wide applications	Once the video is on the website, W. Kocher will contact Marshall. Yod needs a badge. Kocher to provide Phase I Power Point video for the P2 website – contact Sandra.
25.	Develop a web-based P2/Recycling training module(Kenzig/Kocher/Sekura)	Make available	M. Kenzig /S. Jacobson are working on the second draft of training module.
26.	Life Cycle Assessment tool (Kocher / Sekura)	Develop basic model	Develop combined qualitative / quantitative tool. Funding needed. A proposal has been submitted to USEPA HQ.
27.	EPP web site (Kocher/Sekura)	Develop analytical tool	Utsav has competed first version of computer tool. Public version eventually to be on web.
28.	Market EPP site NASA-wide (Kocher / Kenzig / Myers)	Implement EPP on GoLearn.com or similar	W. Kocher will work with CSU, other centers, and local environmental groups. US EPA may be interested. M. Kenzig to work with card holders.
29.	Implement AP and EPP at PBS (Lallier / Kocher / Sekura)	One training session / up on Website	R. Lallier has been conducting environmental training sessions. AP and EPP are now a part of that training.
30.	Strategic plan to include AP/EPP language in contracts (Kenzig/Myers)	Create clause language and incorporate into five contracts	Cafeteria SOW sustainability language developed, partially fulfilling 1 of 5 contract targets. M. Kenzig to meet with Procurement.
31.	EPP Chapter (Kocher / Sekura)	Publish EPP chapter	W. Kocher to see that the EPP chapter is approved. Editing in progress.
32.	Recycle Chapter (Kenzig)	Publish chapter	Chapter has been reviewed by Facilities and Safety / Health / Environmental.
33.	AP Chapter (Kenzig)	Publish chapter	Chapter has been reviewed by Facilities and Safety / Health / Environmental.
34.	Continue to convert EMO/other GRC vehicles to CNG/other alt. (Strawser)	All new/replacement vehicles capable of using alternative fuel	Energy bill passed - to provide for more usage of alternate fuels.
35.	Study of low-strength mortar and flowable fill containing recycled material (Kocher)	Develop guidance document	Report needs to be reorganized for Facilities to reflect Federal policy.
36.	Increase use of green janitorial supplies (Sekura / Jeziorowski)	Replace hazardous chemicals with environmentally preferable products	Sekura and Jeziorowski met. Discussions continue about carpet and Green Clean, Inc.
37.	Reduce energy consumption of unused hoods at GRC (Hodgson)	Evaluate hoods on a case-by-case basis. Number of hoods shut down TBD.	D. Papcke contacted B. Hodgson and Toni Mayor. Received information on hood regulations. Papcke to contact P. Mobley about hoods.

**Projects on Hold**

	<b>ACTIVITIES (PROJECT LEADER)</b>	<b>TARGET</b>	<b>UPDATE</b>
	Replace large Iridite uses (Sekura)	Performance testing done	MIL spec includes chromate. This is a dead issue until GRC specs change or a new chemical developed. New chromate standard proposed to go into place in January 2006.
	Initiate a OneNASA hydrogen power project (Sekura / Hoberecht / Prokopius)	Consensus is achieved by Hydrogen Power Working Group & funding secured.	On hold.
	Hydrogen powered fleet (Sekura / Hoberecht / Prokopius )	GRC has a working hydrogen pumping station. (Long-term: GRC has at least one hydrogen car)	On hold until #10 is completed and further funding is received.
	Sustainable cooling towers at GRC (Lallier / Myers)	Implement 1 tower – Eliminate disinfectant and/or minimize water use	Also, see short-term goals (#11). R. Lallier found another process to review. Write up to come.
	Real Time Monitoring pilot study at GRC – Lewis Field (Kocher)	Secure funding for a prototype unit	Funding needed. Project may move forward during the last half of CY 2005.

**Projects Needing Reports to Complete**

	<b>ACTIVITIES (PROJECT LEAD)</b>	<b>TARGET</b>	<b>UPDATE</b>
24.	Environmental management certification courses (Kocher/White)	Offer / complete one course	P2/Sustainability course will begin in January 2006. LCA to be included.
29.	Implement AP and EPP at PBS (Lallier / Kocher / Sekura)	One training session / up on Website	R. Lallier has been conducting environmental training sessions. AP and EPP are now a part of that training.